



ASCE COMMITTEE ON CRITICAL INFRASTRUCTURE (CCI)

Prepare, Respond, Recover



Charge



- ☐ Provides vision, guidance, and direction on activities related to homeland security and multihazard protection of critical infrastructure
 - ☐ Ensures ASCE's proactive leadership role
 - ☐ Provides guidance to build coalitions that undertake activities in critical infrastructure
 - ☐ Assists in identifying sources and securing necessary resources
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Vision



- ❑ ASCE is a recognized leader in incorporating sensible security into multihazard planning, design, preparedness, procurement, construction, operation and management, mitigation, response, and recovery of critical infrastructure.
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Mission



- ❑ CCI provides insight and guidance to ASCE on its internal and external activities related to multihazard planning, design, preparedness, procurement, construction, operation and management, mitigation, response, and recovery for critical infrastructure, including security. CCI identifies, influences, and facilitates ASCE critical infrastructure activities.
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Multihazard Focus



9/11/01



8/29/05



Definitions

- ❑ **Critical infrastructure** includes systems, facilities, and assets so vital that if destroyed or incapacitated would disrupt the security, economy, health, safety, or welfare of the public. Critical infrastructure may cross political boundaries and may be built (such as structures, energy, water, transportation, and communication systems), natural (such as surface or ground water resources), or virtual (such as cyber, electronic data, and information systems).
 - ❑ **Safety** denotes a status, which is extensively free of adverse effects or is regarded as non-dangerous.
 - ❑ **Security** provides protection against attacks, sabotage, acts of violence, or disruption. Security concepts are constructed and used to reach the status of safety. Measures of security are effective when they prevent or mitigate expected and unexpected consequences.
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Definitions (continued)

- ❑ **Sensible security** is the level of protection provided through design, construction, and operation that mitigates adverse impacts to systems, facilities, and assets, in proportion to their value to society and their likelihood of being affected by natural and/or man-made events.

 - ❑ **Multihazards** include significant events such as infrastructure deterioration, natural disasters, accidents, and malevolent acts.
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Definitions (continued)

- ❑ **Disaster resilience** refers to the capability to prevent or protect against significant multihazard threats and incidents and to expeditiously recover and reconstitute critical services with minimum damage to public safety and health, the economy, and national security
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Goals



1. Promote awareness in ASCE and the general public regarding critical infrastructure planning, design, preparedness, procurement, construction, operation and management, and response, mitigation and recovery from multihazard conditions
 2. Build internal and external coalitions to undertake activities in critical infrastructure
 3. Identify and obtain resources to conduct ASCE critical infrastructure activities
 4. Facilitate the development of standards, standards of practice, and guidelines to develop critical infrastructure resiliency to multihazard conditions
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Goals (continued)

- ☐ Provide a structure, policies, and procedures for ASCE responses to critical infrastructure events of national and/or international significance
 - ☐ Ensure that ASCE maintains its proactive leadership role in key national critical infrastructure issues
 - ☐ Promote sensible security in critical infrastructure planning, design, preparedness, procurement, construction, operation and management, mitigation, response, and recovery
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Activities



- ❑ Adopt and promote working definitions of critical infrastructure, sensible security, and multihazards
 - ❑ Implement sensible security concepts into the ASCE Code of Ethics
 - ❑ Identify and document current and planned activities in critical infrastructure within ASCE
 - ❑ Develop strategy to implement prioritized needs identified through a gap analysis
 - ❑ Serve in an advisory role to the ASCE Board to determine appropriate response to significant events
 - ❑ Conduct ASCE member survey to identify training needs
 - ❑ Develop ASCE workshop(s) on critical infrastructure
 - ❑ Advocate ASCE support of The Infrastructure Security Partnership (TISP)
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Activities (continued)



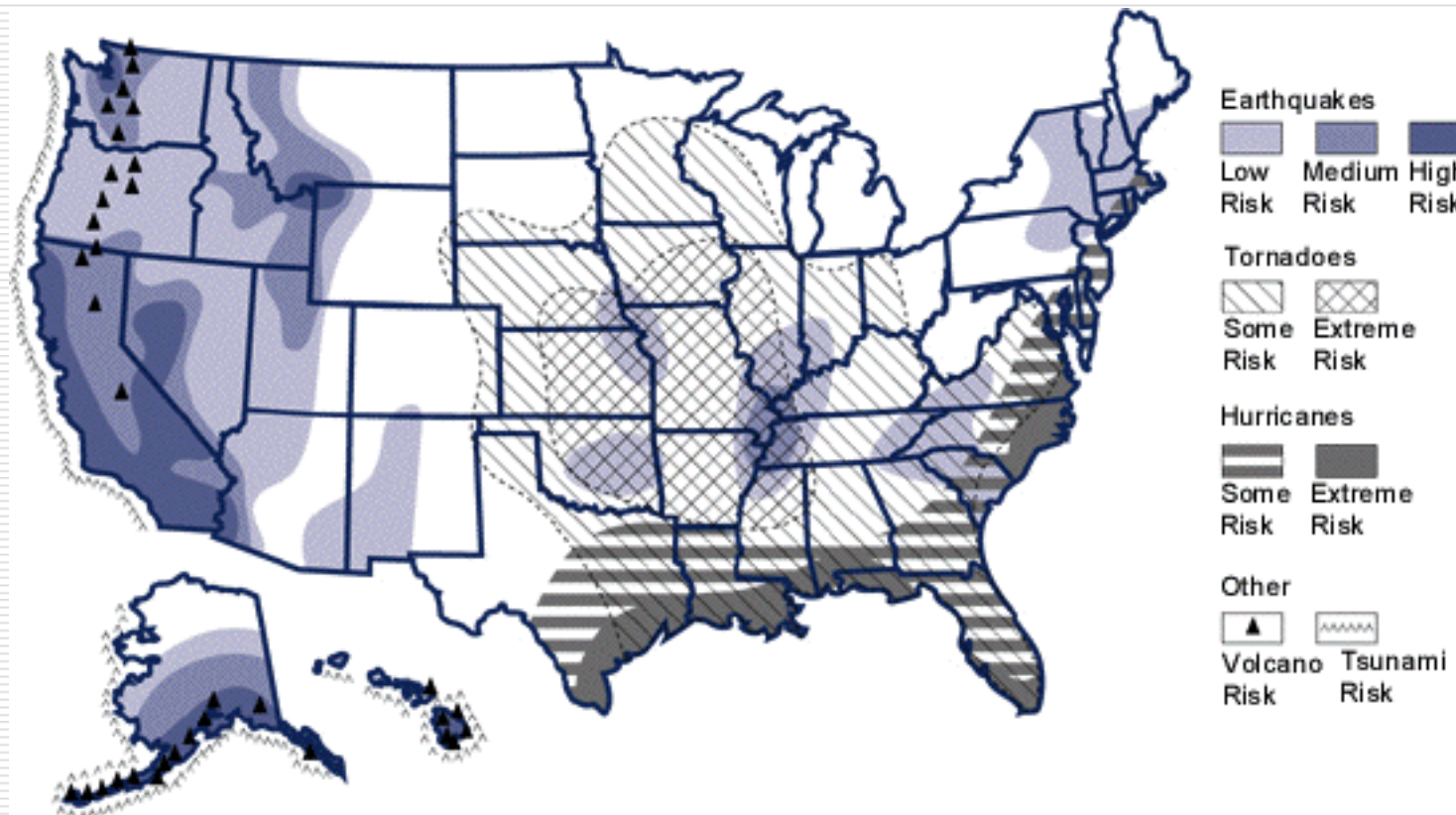
- ❑ Work with internal ASCE units to identify specific grant opportunities
 - ❑ Provide annual report to the Board of Direction on the efficacy of ASCE-wide critical infrastructure activities with specific recommendations for action
 - ❑ Develop critical infrastructure section of the ASCE website with regularly updated content
 - ❑ Evaluate civil engineering curricula and make recommendations to better prepare future civil engineers
 - ❑ Design a program to promote and energize ASCE Infrastructure Champions
 - ❑ Develop strategy to address liability and legal issues regarding participation in disaster response and recovery operations
 - ❑ Develop ASCE training and outreach tools promoting critical infrastructure management
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Roster



Name	Employer	Sector
Michael Chritton, CPP	CH2M HILL	Security Risk Assessments
Marla Dalton, P.E.	ASCE/TISP	Critical Infrastructure/TISP Executive Director
Jeffrey Danneels	Sandia National Laboratories	Water/Risk Assessments
Mohammed Ettouney, Ph.D., P.E.	Weidlinger Associates	Buildings/Blast Protection
Edward Hecker	US Army Corps of Engineers	Federal Government
W. Craig Helms, P.E., F.ASCE	Civil Engineering of the Carolinas	Local Response
Edward Laatsch, P.E.	Federal Emergency Management Agency	Federal Government
Maria Lehman, P.E., F.ASCE	The Chazen Companies	Private Sector
Eva Lerner-Lam	The Palisades Group, Inc.	Transportation
Daniel Martin	Hagerty Consulting	Disaster Management
Paul Mlakar, Ph.D., P.E.	US Army Corps of Engineers	Blast Protection
Karen Moran, P.E.	Whitman, Requardt & Associates, LLP	Water/Wastewater
Lawrence Roth, P.E.	ASCE	Geotechnical
Doug Sethness, P.E.	CH2M HILL	Ports and Waterways

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Mitchell Consulting

